[GENETYX-MAC: Multiple Alignment]

Docket No.: 1254-0315PUS1

App No.: NEW Docket No.: 1254-0315PUS1
Inventor: Hisatoshi SHIDA et al.
Title: HIGHLY SAFE SMALLPOX VACCINE VIRUS AND VACCINIA VIRUS
VECTOR
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B5R/m0. aa B5R/m8R1. aa B5R/m8R2. aa B5R/m8R3. aa	MKT SVVILLCVLPAVYYSTGTVPTMMAKLTSTETSRDKQKVTFTCDQGYHSLDPNAVCETDKWKYENPCKGMCTVSDYVSELYDKPLYEANSTMTLS	00 1 00 00 00 00 00 00 00 00 00 00 00 00
B5R/m0. aa B5R/m8R1. aa B5R/m8R2. aa B5R/m8R3. aa	101 CNGETKYFRCEEKNGNTSWNDTVTGPNAECQPLQLEHGSCQPVKEKYSFGEYMTINCDVGYEVIGASYISGTANSWNVIPSCQCKCDMPSLSNGLISGST 101 **********************************	200 200 200 200
B5R/m0. aa B5R/m8R1. aa B5R/m8R2. aa B5R/m8R3. aa	201 FSIGGVIHLSCKSGFTLTGSPSSTG1DGKWNPILPTCVRSNEKFDPVDDGPDDETDLSKLSKDWQYEGE1ESLEATYHI11VALTIMGVIFLISVIVLV 201 xx4c***********************************	300
B5R/m0. aa B5R/m8R1. aa B5R/m8R2. aa B5R/m8R3. aa	301 CSODKNINDQYKFHKLLP 301	317 317 317 317

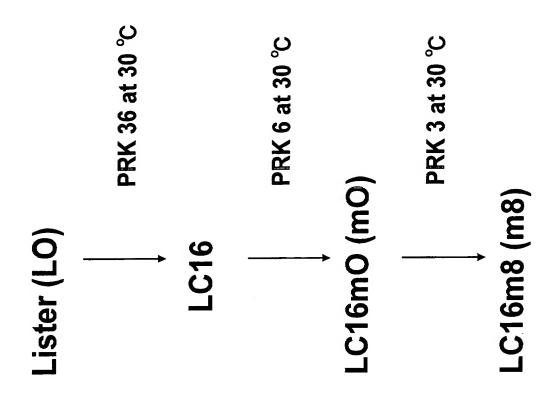
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VACCINE VIRUS AND VACCINIA VIRUS

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	1	1	1	1	1 1
LC16m8	Strong	Small	Very low	Weak	Moderate
LC16m0	Strong	Medium	Very low	Moderate	Strong
Lister	Weak	Large	Moderate	Moderate	Moderate
	ts	Pock size	Neurotoxicity	Property of proliferating in skin	Antibody production

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9 3.1 2.5 Revertant virus plaque size LPC#2 Virus 2.1 0.0 1.0 0.5 3.0 2.5

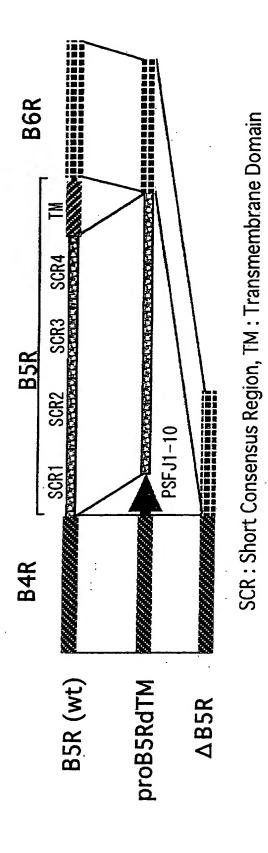
Fig. 5

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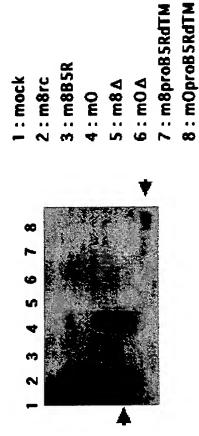
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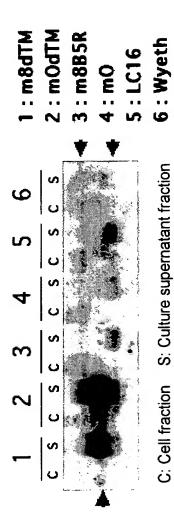


Fig. 7a

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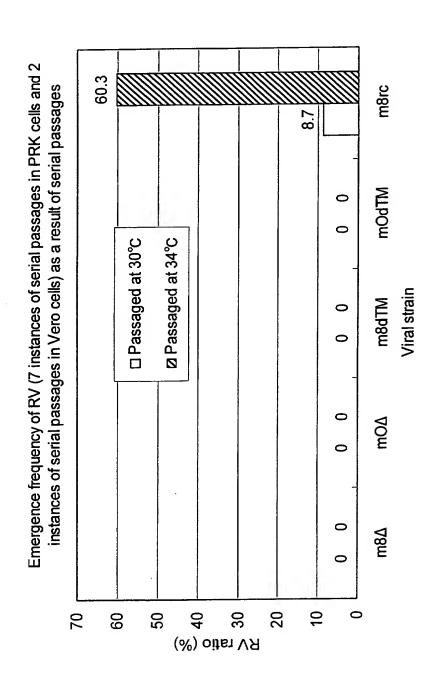


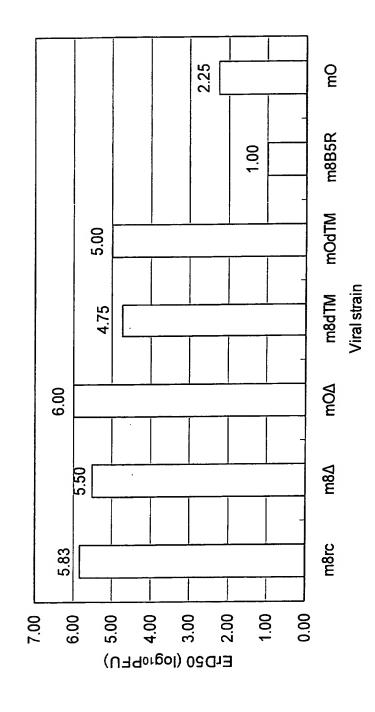
Fig. 8

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Property of proliferating in skin in rabbit (ErD50)



Pathogenicity in SCID mice (body weight loss) 1

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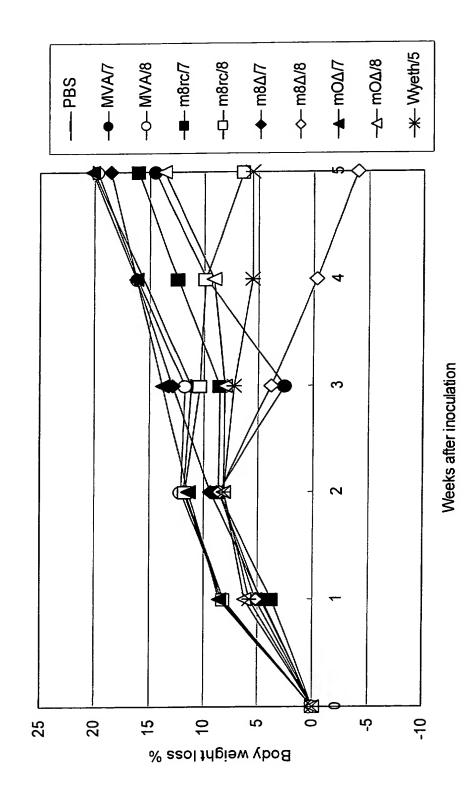
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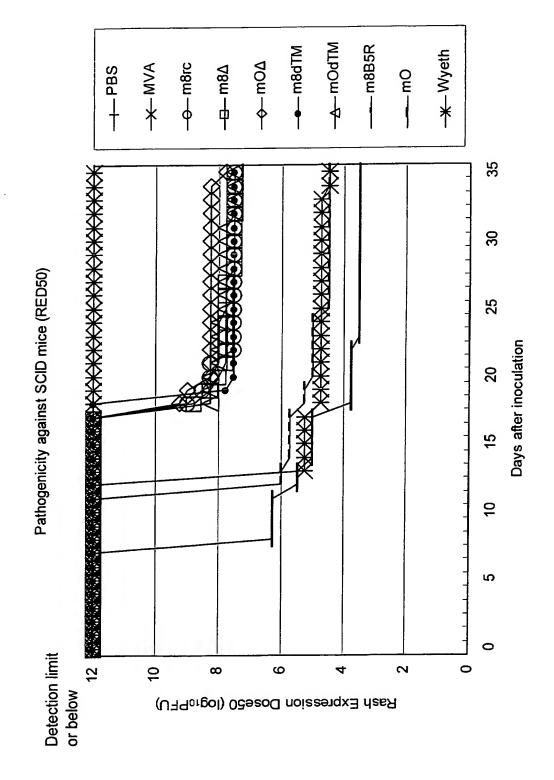
1. 10B

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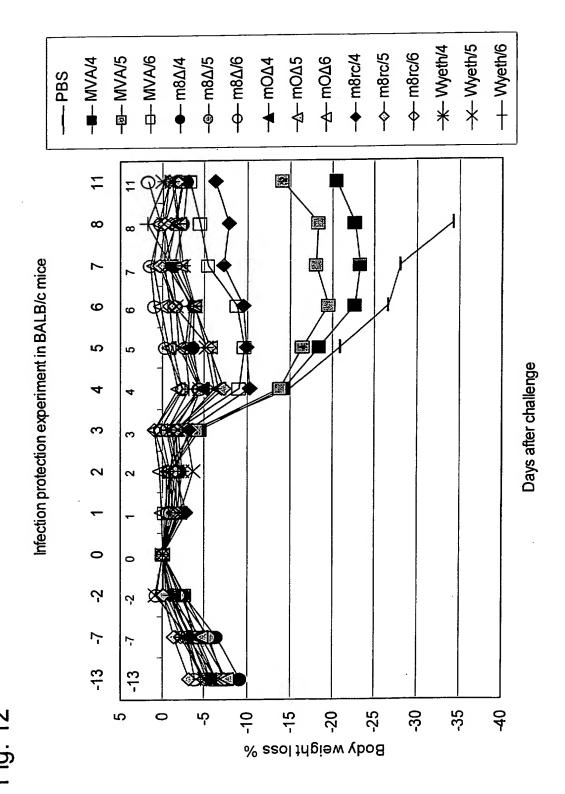
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→ mOdTM/8 A-m8B5R/6 F m8B5R/5 9/0m-0-PBS Pathogenicity in SCID mice (body weight loss) 2 Weeks after inoculation % seol the self weight loss % 20 10 -20 -30 4 30

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